

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P844145

Luminaire Tested: **LD6C20DE010B2750 EU6C20B35 6LBSWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20DE010B2750 EU6C20B35 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

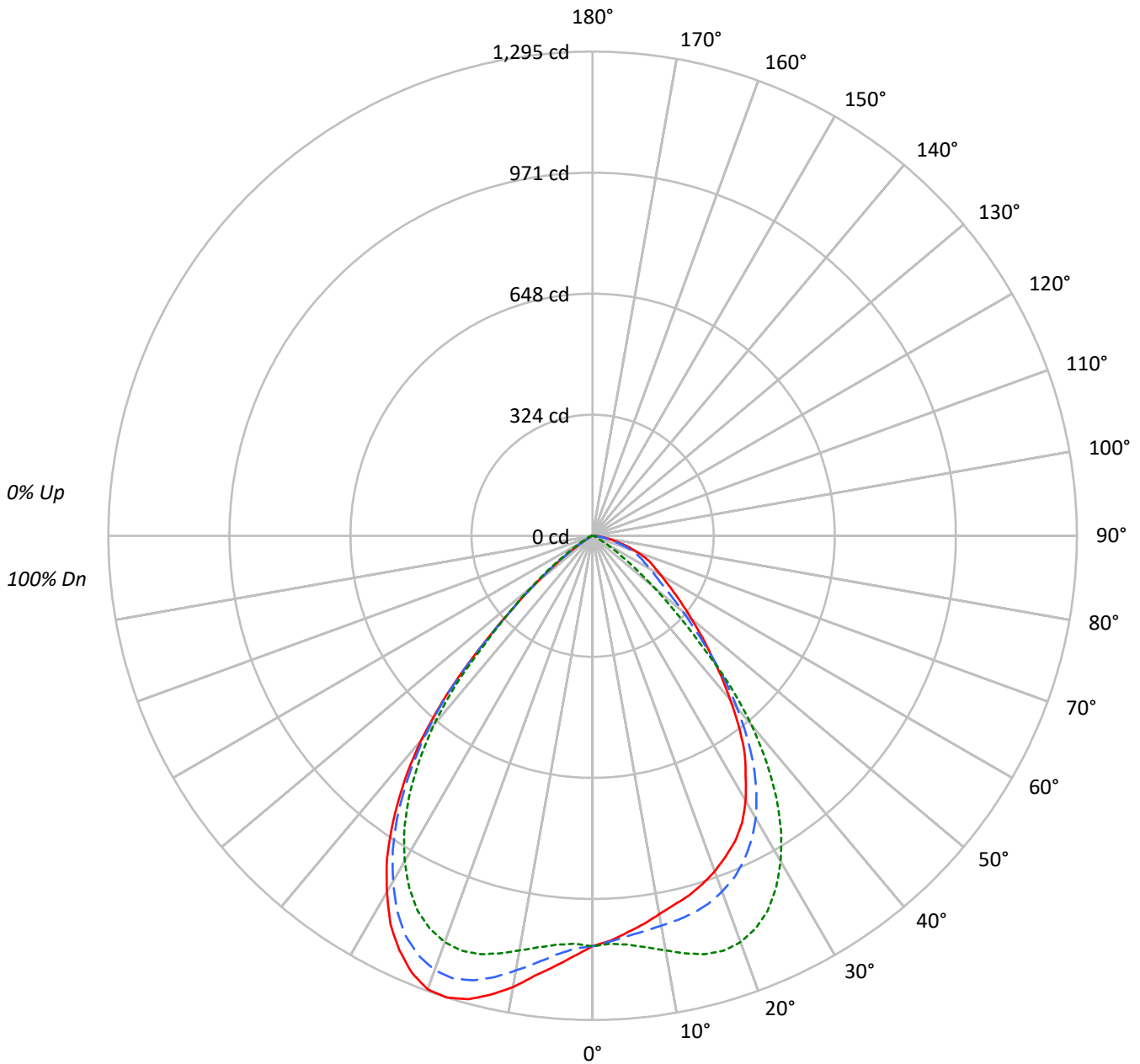
Lumens per Lamp: N/A
Luminaire Lumens: 2006.3 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	60171	60171	60171
5°	58606	60400	63581
10°	57186	62680	68230
15°	56521	65750	72832
20°	55707	67463	75297
25°	54523	66960	73946
30°	51812	63636	69612
35°	47402	57373	62151
40°	40998	47382	50988
45°	34577	31073	33352
50°	29355	17987	16912
55°	25471	8621	6518
60°	23003	4024	1612
65°	22324	2322	545
70°	20019	1843	513
75°	16436	1334	233
80°	12249	663	0
85°	10567	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	5.3
10°-20°	323.1	16.1
20°-30°	493.7	24.6
30°-40°	516.3	25.7
40°-50°	335.0	16.7
50°-60°	133.0	6.6
60°-70°	63.1	3.1
70°-80°	30.0	1.5
80°-90°	6.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	922.8	46.0
0°-40°	1439.2	71.7
0°-60°	1907.1	95.1
0°-90°	2006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1098	1098	1098	1098	1098	
5°	1065	1075	1098	1125	1155	101
15°	996	1044	1158	1231	1283	281
25°	901	958	1107	1182	1222	413
35°	708	751	857	908	929	438
45°	446	442	401	425	430	347
55°	266	227	90	70	68	242
65°	172	143	18	4	4	168
75°	78	63	6	2	1	84
85°	17	10	0	0	0	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1084.0	1086.1	1074.6	1071.4	1079.8	1082.9	1084.0	1080.8	1081.9	1086.1	1086.1
5°	1065.0	1067.2	1056.7	1053.5	1062.0	1064.1	1067.2	1066.2	1069.3	1075.6	1074.6
7.5°	1047.3	1050.4	1038.8	1034.7	1045.2	1050.4	1052.6	1052.6	1056.7	1065.0	1066.2
10°	1027.3	1031.5	1021.0	1018.9	1030.5	1035.7	1036.8	1038.8	1045.2	1056.7	1058.8
12.5°	1010.6	1014.7	1007.4	1004.2	1016.8	1022.1	1024.1	1028.3	1035.7	1050.4	1052.6
15°	995.9	998.9	990.6	988.5	1001.1	1007.4	1008.5	1014.7	1024.1	1040.9	1044.1
17.5°	976.9	979.1	972.7	970.7	983.3	989.5	990.6	997.9	1009.5	1026.3	1031.5
20°	954.9	957.1	950.7	948.6	961.2	968.6	969.6	975.9	989.5	1007.4	1012.6
22.5°	928.7	932.8	925.5	923.4	936.0	942.4	945.4	950.7	964.4	982.2	989.5
25°	901.4	901.4	896.1	895.1	906.6	914.0	912.9	920.2	933.9	951.8	958.0
27.5°	865.7	864.6	859.4	858.4	871.0	877.3	875.2	882.5	895.1	912.9	919.2
30°	818.5	820.6	813.2	811.1	821.7	832.1	831.1	838.4	851.0	867.8	872.0
32.5°	761.8	763.9	762.9	759.7	769.2	774.4	777.6	782.9	793.3	811.1	815.3
35°	708.3	705.1	701.0	701.0	710.4	718.8	715.6	721.9	732.4	750.3	751.3
37.5°	642.2	641.1	639.0	637.0	647.5	649.5	650.7	654.8	664.3	678.9	676.9
40°	572.9	574.0	572.9	568.7	575.0	583.4	582.3	584.6	592.9	603.4	600.2
42.5°	507.9	507.9	507.9	503.6	511.0	515.3	517.3	516.2	518.3	527.9	523.6
45°	446.0	447.1	446.0	444.9	446.0	448.1	446.0	444.9	444.9	448.1	441.8
47.5°	392.5	392.5	389.3	386.1	389.3	390.4	387.2	384.0	383.0	382.0	371.4
50°	344.2	343.1	342.1	336.9	339.9	341.1	336.9	334.7	330.5	325.3	312.7
52.5°	302.3	301.2	300.1	294.9	297.0	298.0	293.8	289.6	284.4	280.2	264.4
55°	266.5	265.5	265.5	262.4	260.2	262.4	258.2	255.0	247.7	242.4	226.7
57.5°	236.1	236.1	233.9	230.9	231.9	231.9	227.7	223.5	217.2	210.9	198.3
60°	209.8	209.8	209.8	206.7	206.7	206.7	204.7	200.4	195.2	188.9	176.3
62.5°	188.9	188.9	187.8	184.7	185.7	185.7	183.6	179.5	174.2	170.0	157.4
65°	172.1	172.1	172.1	169.0	169.0	170.0	167.8	163.7	159.5	154.2	142.7
67.5°	151.1	150.1	150.1	148.0	149.0	150.1	148.0	144.8	139.6	136.4	126.0
70°	124.9	126.0	126.9	123.8	124.9	124.9	123.8	120.7	117.5	114.3	104.9
72.5°	101.7	101.7	100.7	99.7	99.7	100.7	98.7	95.5	93.4	91.3	84.0
75°	77.6	76.6	77.6	75.5	75.5	75.5	73.4	72.4	71.4	68.2	62.9
77.5°	56.7	55.6	55.6	53.5	54.6	54.6	53.5	51.4	49.3	48.2	44.1
80°	38.8	38.8	38.8	37.8	37.8	36.7	36.7	35.6	33.5	32.6	30.5
82.5°	26.2	26.2	26.2	25.2	25.2	25.2	24.1	23.1	22.0	20.9	18.9
85°	16.8	16.8	16.8	15.8	15.8	15.8	14.7	14.7	13.6	12.6	10.5
87.5°	9.4	9.4	9.4	8.4	8.4	8.4	8.4	8.4	7.3	6.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1093.4	1078.7	1088.2	1088.2	1085.0	1093.4	1098.7	1102.9	1101.8	1092.4	1091.3
5°	1085.0	1072.4	1082.9	1084.0	1080.8	1092.4	1099.7	1104.9	1106.1	1097.6	1098.7
7.5°	1078.7	1068.2	1081.9	1086.1	1085.0	1095.5	1104.0	1112.3	1116.5	1110.2	1111.3
10°	1075.6	1067.2	1081.9	1088.2	1089.3	1100.8	1113.4	1124.9	1130.2	1126.0	1129.1
12.5°	1071.4	1066.2	1082.9	1092.4	1096.6	1108.1	1123.8	1137.5	1145.9	1143.8	1150.1
15°	1067.2	1063.0	1082.9	1096.6	1101.8	1112.3	1130.2	1150.1	1159.6	1158.5	1166.9
17.5°	1056.7	1055.6	1076.7	1091.3	1098.7	1111.3	1128.1	1152.2	1161.6	1163.7	1174.2
20°	1040.0	1040.0	1063.0	1078.7	1087.1	1098.7	1119.7	1142.8	1154.3	1156.4	1167.9
22.5°	1016.8	1018.9	1040.9	1056.7	1069.3	1077.6	1099.7	1123.8	1134.3	1137.5	1150.1
25°	986.5	988.5	1009.5	1025.2	1038.8	1048.3	1069.3	1091.3	1104.0	1107.0	1116.5
27.5°	946.5	950.7	970.7	986.5	997.9	1004.2	1026.3	1049.4	1058.8	1062.0	1071.4
30°	900.4	901.4	921.3	934.9	946.5	951.8	970.7	994.8	1002.1	1005.3	1018.9
32.5°	843.7	842.6	861.5	874.1	883.5	889.9	909.8	925.5	932.8	938.1	945.4
35°	775.5	774.4	788.0	802.7	810.1	812.2	832.1	849.0	853.1	857.3	866.7
37.5°	698.9	698.9	710.4	717.8	726.2	729.2	738.8	757.7	765.0	763.9	771.2
40°	618.1	613.9	622.2	629.6	631.7	632.8	642.2	656.9	662.1	662.1	667.4
42.5°	533.0	526.8	527.9	532.0	534.1	526.8	533.0	542.5	539.4	543.5	544.7
45°	442.8	433.4	429.2	419.8	421.9	414.5	410.3	412.4	411.3	400.8	403.0
47.5°	369.3	352.6	345.2	331.6	328.5	320.0	314.9	305.3	297.0	297.0	291.7
50°	307.5	290.6	275.9	260.2	255.0	247.7	236.1	223.5	217.2	210.9	205.7
52.5°	258.2	240.3	222.4	205.7	198.3	188.9	173.1	160.5	149.0	142.7	136.4
55°	218.3	198.3	179.5	161.6	152.2	142.7	126.9	112.3	98.7	90.2	85.0
57.5°	187.8	169.0	149.0	130.1	121.7	111.3	94.4	78.7	66.1	56.7	51.4
60°	165.8	146.9	129.1	109.1	100.7	90.2	72.4	57.7	45.2	36.7	30.5
62.5°	146.9	130.1	111.3	93.4	85.0	74.5	57.7	43.0	31.5	23.1	17.9
65°	133.3	116.4	100.7	82.9	75.5	65.0	49.3	35.6	25.2	17.9	12.6
67.5°	117.5	102.8	87.0	72.4	65.0	56.7	42.0	30.5	20.9	14.7	10.5
70°	98.7	87.0	73.4	59.9	54.6	47.2	34.6	25.2	16.8	11.5	8.4
72.5°	78.7	69.3	58.8	48.2	44.1	36.7	28.3	20.0	12.6	8.4	6.3
75°	59.9	52.5	44.1	36.7	32.6	28.3	20.9	14.7	9.4	6.3	4.2
77.5°	40.9	37.8	31.5	25.2	23.1	20.0	13.6	9.4	6.3	4.2	2.1
80°	28.3	25.2	20.9	16.8	14.7	12.6	8.4	6.3	3.2	2.1	1.1
82.5°	17.9	14.7	12.6	10.5	9.4	7.3	5.3	3.2	2.1	1.1	1.1
85°	9.4	8.4	7.3	5.3	5.3	4.2	3.2	2.1	1.1	0.0	0.0
87.5°	5.3	4.2	3.2	2.1	2.1	1.1	1.1	1.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1104.0	1104.0	1102.9	1115.5	1100.8	1115.5	1108.1	1115.5	1104.9	1104.0	1104.9
5°	1112.3	1115.5	1116.5	1128.1	1114.4	1132.3	1126.0	1132.3	1124.9	1127.0	1130.2
7.5°	1129.1	1134.3	1133.4	1148.0	1134.3	1154.3	1150.1	1159.6	1152.2	1154.3	1158.5
10°	1148.0	1154.3	1155.4	1170.1	1157.4	1181.6	1176.3	1186.8	1180.5	1183.7	1188.9
12.5°	1170.1	1177.4	1178.4	1195.2	1181.6	1206.8	1203.6	1214.1	1208.9	1212.0	1218.3
15°	1186.8	1197.2	1199.5	1216.2	1201.5	1227.7	1225.7	1239.3	1230.9	1236.2	1241.3
17.5°	1195.2	1204.6	1208.9	1224.6	1212.0	1238.3	1236.2	1247.7	1241.3	1246.6	1253.0
20°	1189.9	1201.5	1204.6	1220.4	1207.8	1234.0	1230.9	1242.4	1236.2	1240.3	1246.6
22.5°	1171.0	1182.6	1186.8	1201.5	1189.9	1214.1	1213.1	1223.6	1215.1	1220.4	1225.7
25°	1137.5	1150.1	1152.2	1165.8	1153.2	1178.4	1176.3	1187.8	1181.6	1184.8	1192.1
27.5°	1089.3	1104.0	1107.0	1118.7	1109.1	1130.2	1130.2	1139.6	1132.3	1132.3	1139.6
30°	1031.5	1046.2	1048.3	1057.7	1049.4	1068.2	1069.3	1078.7	1067.2	1073.5	1074.6
32.5°	961.2	970.7	976.9	985.3	972.7	996.9	993.8	1001.1	994.8	994.8	1000.1
35°	876.2	887.8	891.0	901.4	891.0	909.8	909.8	914.0	907.7	907.7	916.1
37.5°	783.9	792.3	793.3	803.8	795.3	811.1	810.1	813.2	807.0	811.1	811.1
40°	675.7	682.1	684.2	689.4	688.4	699.9	698.9	701.0	697.8	698.9	701.0
42.5°	549.9	558.2	562.4	566.7	560.3	576.1	572.9	576.1	575.0	576.1	579.3
45°	405.1	411.3	414.5	415.5	413.4	422.8	430.2	423.9	425.0	422.8	427.1
47.5°	292.8	293.8	291.7	298.0	292.8	297.0	299.1	300.1	293.8	292.8	297.0
50°	200.4	205.7	198.3	201.5	200.4	204.7	202.5	203.6	197.2	200.4	198.3
52.5°	133.3	132.2	130.1	131.1	129.1	129.1	129.1	131.1	126.9	124.9	122.8
55°	80.8	78.7	74.5	73.4	73.4	74.5	72.4	70.3	70.3	69.3	69.3
57.5°	47.2	44.1	42.0	40.9	38.8	37.8	36.7	36.7	34.6	34.6	34.6
60°	26.2	23.1	20.9	18.9	18.9	17.9	16.8	15.8	15.8	15.8	14.7
62.5°	13.6	11.5	9.4	8.4	8.4	7.3	6.3	6.3	6.3	6.3	5.3
65°	9.4	7.3	6.3	5.3	5.3	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	7.3	6.3	5.3	4.2	4.2	4.2	3.2	3.2	3.2	3.2	3.2
70°	6.3	4.2	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	4.2	4.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P844145

CATALOG NUMBER: LD6C20DE010B2750 EU6C20B35 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1114.4	1113.4	1114.4	1116.5	1112.3	1124.9	1118.7	1124.9
5°	1138.5	1139.6	1140.7	1143.8	1138.5	1154.3	1145.9	1155.4
7.5°	1170.1	1171.0	1172.2	1175.2	1172.2	1187.8	1178.4	1186.8
10°	1202.5	1204.6	1204.6	1209.9	1206.8	1221.5	1215.1	1225.7
12.5°	1233.0	1235.1	1237.2	1240.3	1238.3	1253.9	1248.7	1257.1
15°	1257.1	1261.3	1262.4	1266.5	1264.5	1281.2	1275.0	1283.3
17.5°	1268.6	1272.9	1272.9	1278.2	1276.0	1293.8	1285.4	1294.9
20°	1262.4	1265.6	1266.5	1271.8	1269.7	1287.6	1279.2	1290.7
22.5°	1242.4	1243.5	1244.5	1249.8	1248.7	1264.5	1257.1	1264.5
25°	1205.7	1208.9	1207.8	1212.0	1212.0	1224.6	1216.2	1222.5
27.5°	1153.2	1156.4	1156.4	1161.6	1157.4	1170.1	1161.6	1171.0
30°	1089.3	1092.4	1090.3	1094.4	1090.3	1102.9	1096.6	1099.7
32.5°	1012.6	1012.6	1013.6	1014.7	1012.6	1024.1	1017.9	1024.1
35°	921.3	923.4	924.5	925.5	923.4	931.8	924.5	928.7
37.5°	818.5	823.8	822.7	823.8	820.6	831.1	824.7	826.9
40°	708.3	708.3	707.2	709.4	706.2	714.6	710.4	712.5
42.5°	580.3	583.4	579.3	584.6	576.1	587.6	583.4	580.3
45°	435.5	431.3	430.2	431.3	428.1	429.2	432.4	430.2
47.5°	297.0	297.0	294.9	291.7	295.9	297.0	292.8	292.8
50°	199.4	199.4	197.2	196.2	198.3	197.2	195.2	198.3
52.5°	126.9	122.8	122.8	124.9	122.8	120.7	123.8	121.7
55°	69.3	67.2	67.2	69.3	67.2	67.2	66.1	68.2
57.5°	33.5	34.6	33.5	33.5	33.5	33.5	32.6	33.5
60°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
62.5°	6.3	6.3	5.3	5.3	5.3	5.3	5.3	5.3
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	3.2	3.2	3.2	3.2	3.2	4.2	3.2	3.2
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	3.2	3.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)